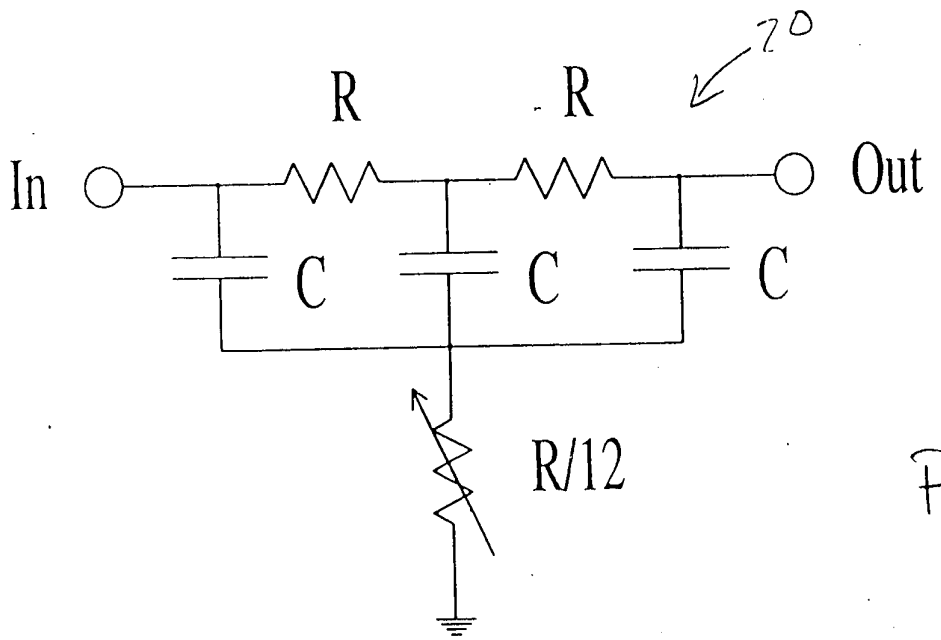


Prior Art

$$G(s) = \frac{(RCs)^3+4*(RCs)^2+3RCs+12}{(RCs)^3+16*(RCs)^2+39RCs+12}$$

$$f(null) = sqrt(3)/(2pi*RC)$$

Figure 1

Isolated-Integrator Band-Reject Filter

R7 = R6/12
R3 = R2/12
f(null) = sqrt(3)/(2*pi*R2*C2) or sqrt(3)/(2*pi*R6*C4)

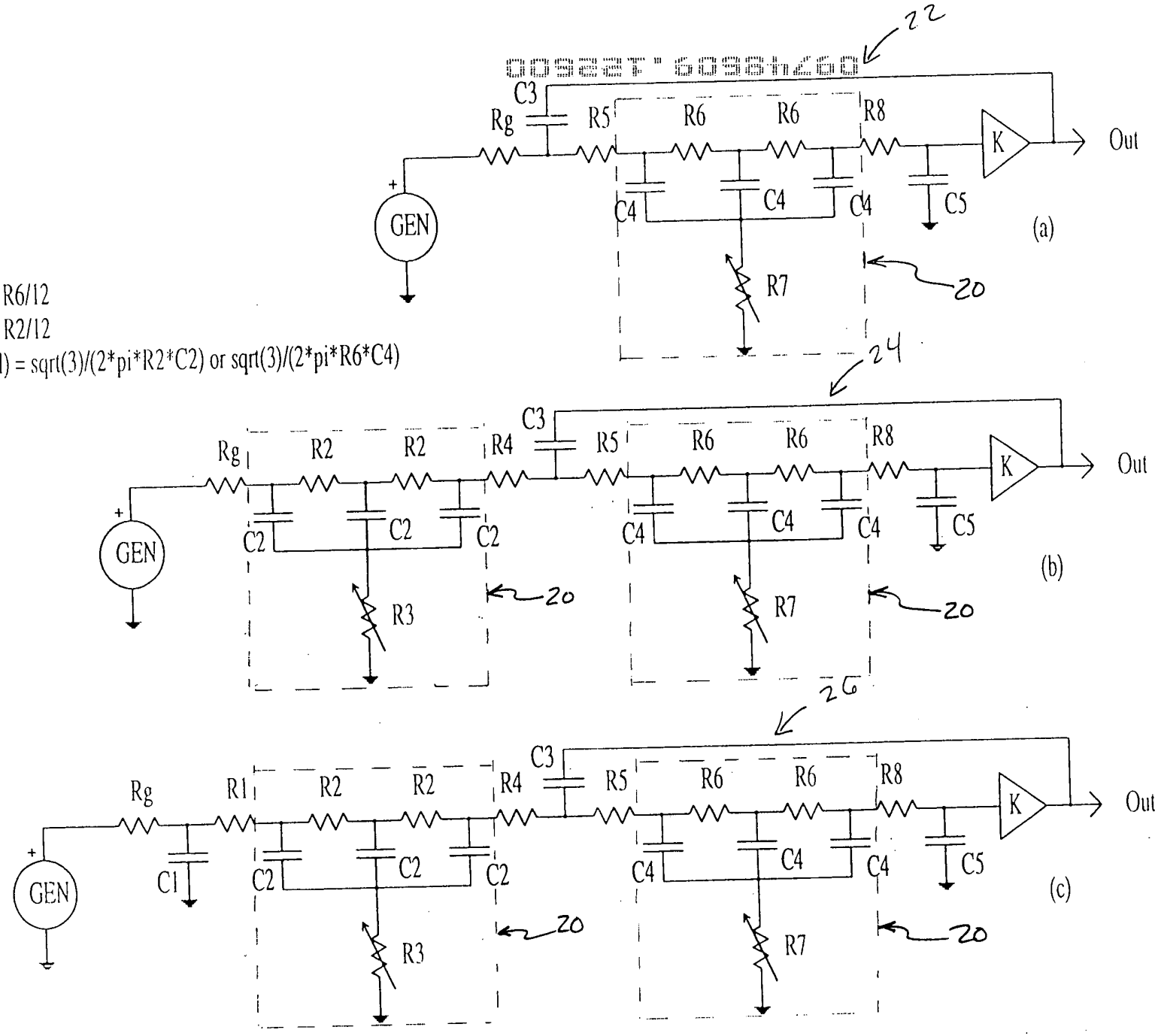


Figure 2

Low-Pass Sallen & Key Filters w Isolated Integrator Traps

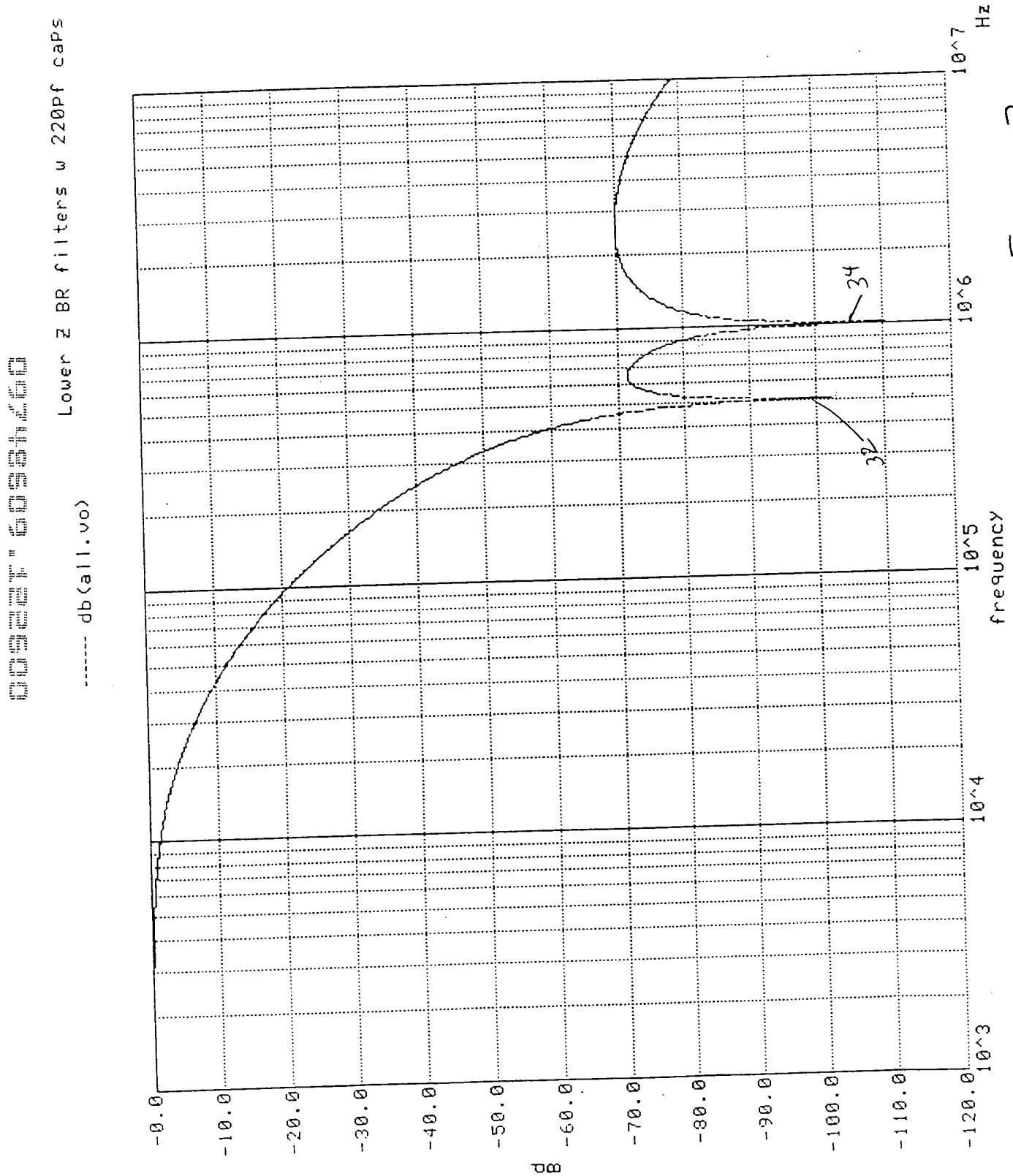
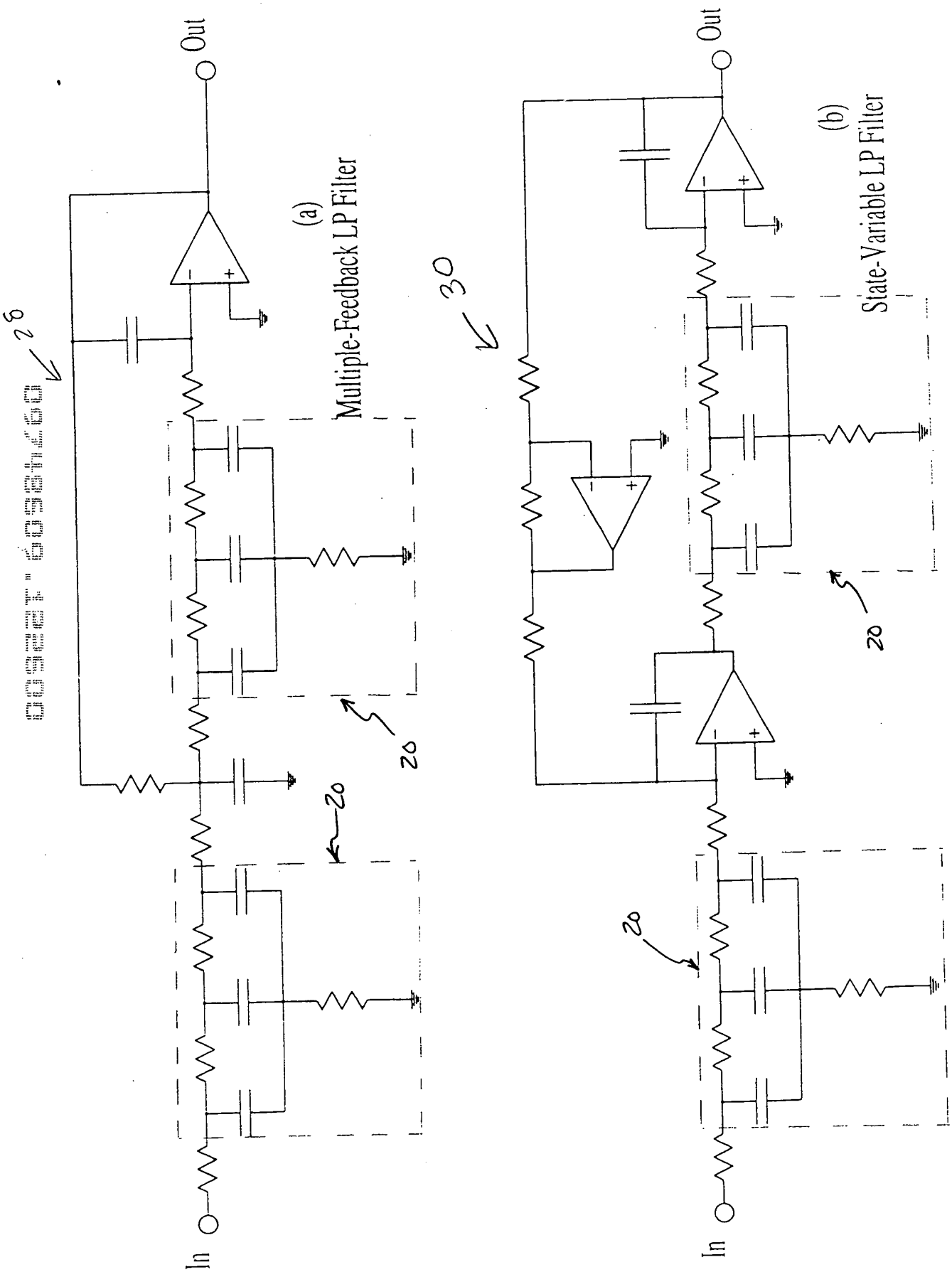

Lower Z BR filters w 220pf caps
---- db(all.vo)
dB
frequency
Hz
-0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
-110.0
-120.0
10^3
10^4
10^5
10^6
10^7
34
32

Figure 3



Low-Pass Filters with Isolated-Integrator Notch Filters

Figure 4

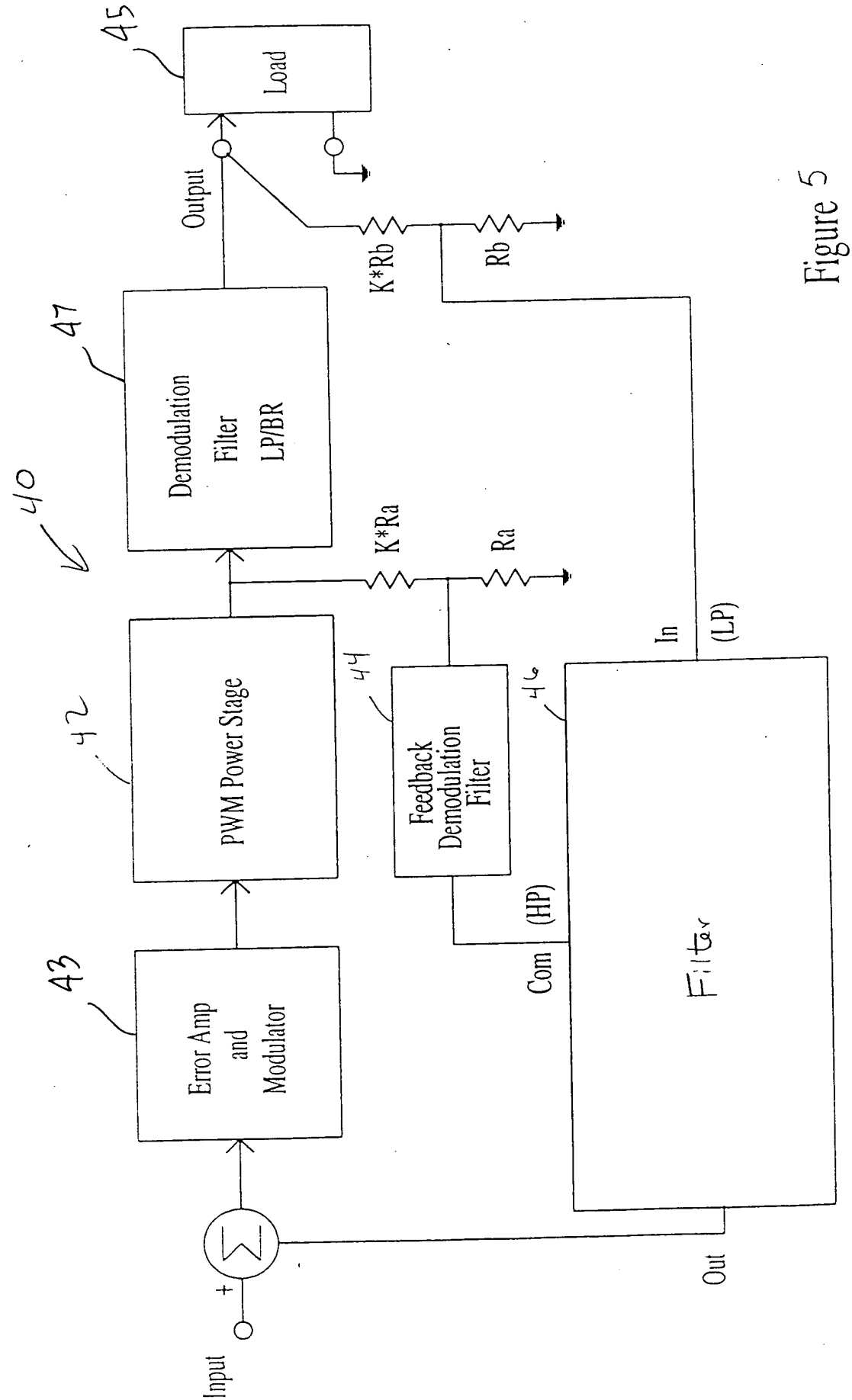

45
Load
Output
K*Rb
Rb
47
Demodulation
Filter
LP/BR
40
K*Ra
Ra
42
PWM Power Stage
44
Feedback
Demodulation
Filter
46
In
(LP)
Com
(HP)
Filter
43
Error Amp
and
Modulator
Input
+
Out

Figure 5